

National Type Evaluation Program
Certificate of Conformance
for Weighing and Measuring Devices

For:

Dispenser Measuring Element
Positive Displacement
Models: PA024TC10
PA024NC10

Submitted by:

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(formerly Gilbarco Inc.)
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Standard Features and Options

Maximum Flow Rate: 40 gal/min for two meters in parallel
30 gal/min for one meter with diesel fuel
20 gal/min for one meter with gasoline

The generic name for this model is the "C" meter

The Model PA024TC10 has connections for an electronic dispenser

The Model PA024NC10 has connections for a mechanical dispenser

This device was evaluated under the National Type Evaluation Program (NTEP) and was found to comply with the applicable technical requirements of Handbook 44, "Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: December 1, 1999

Gilbert M. Ugiansky, Ph.D.
Chief, Office of Weights and Measures
Issue Date: March 16, 2000

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Marconi Commerce Systems Inc.
Dispenser Measuring Element
Models: PA024TC10 and PA024NC10

Application: The meter may be used at flow rates up to 40 gallons per minute for diesel fuel dispensers when two "C" meters are installed in parallel in the Marconi Commerce Systems Inc. Super High gallonage dispenser (Certificate of Conformance Number 88-022A). The meter may be used at flow rates up to 30 gallons per minute for dispensing diesel fuel and up to 20 gallons per minute for dispensing gasoline. The meters may be used in either electronic or mechanical dispensers.

Identification: The identification badge is on the meter.

Sealing: The adjustment mechanism for the meter may be sealed with a wire security seal.

Test Conditions: This Certificate is issued based on information provided by the manufacturer to change the name of the company from the previous name, Gilbarco Inc., and to transfer ownership of the device covered under Certificate of Conformance Number 88-003A2 to Marconi Commerce Systems Inc. All institutional knowledge of the previous owner has been transferred to the new company. Test conditions for Certificate of Conformance Number 88-003A2 and its preceding certificates are listed below for reference.

Certificate of Conformance Number 88-003A2: This addendum was issued to increase the maximum flow rate for a single meter used for dispensing gasoline up to 30 gallons per minute. One diesel fuel dispenser was tested. One meter was installed in a Gilbarco Inc. dispenser Model AC4982A. Testing was performed using this dispenser and satellite Model AC4093. The dispenser was tested at flow rates of 12, 13, 18, and 27 gal/min using the master and/or satellite separately and in combination. The dispenser was tested initially, used for approximately 30 days, and then tested again after delivering 46 000 gallons of diesel fuel since the initial test. In order to achieve a flow rate of 30 gallons per minute, it was necessary to use a rated submerged pump of five horsepower and maintain 40 PSI in the system.

Certificate of Conformance Number 88-003A: One diesel fuel dispenser was tested. The dispenser had a master dispenser and a satellite dispenser. The dispenser was tested at flow rates of approximately 8, 25, and 40 gal/min. The master and satellite dispensers were tested separately and in combination. The dispenser was tested initially, used for approximately 30 days, and then tested again after delivering 40 000 gallons of diesel fuel since the initial test.

Certificate of Conformance Number 88-003: Three meters were installed in Gilbarco Inc. Salesmaker dispensers. Two meters were tested on unleaded gasoline and one on diesel fuel. The dispensers were tested initially and approximately 30 days later and after more than 20 000 gallons had been delivered on each product. Two tests were run at each flow rate (normal and slow flow) on each meter.

The results of the evaluations indicate the meters comply with applicable tolerances of NIST Handbook 44.

Type Evaluation Criteria Used: NIST Handbook 44, 1999 Edition

Tested By: T. Scott (NC), H. Oppermann (NIST) 88-003; L. Hockett, W. Dix (NC) 88-003A; L. Hockett, T. Tatum (NC) 88-003A2

Information Reviewed By: L. Sebring (NIST) and G. Newrock (NIST) 99-164